



LOCATION

City of Toronto

CLIENT

City of Toronto

CONSULTANT

WSP

PIPE SIZE

150mm, 300mm

PROJECT LENGTH

4,500m

BUDGET

\$13,447,221.48

TIMELINE

April 2019 -
November 2020

SERVICES INTERNALLY REINSTATED

308

SERVICES REPLACEMENTS

200



PROJECT BACKGROUND

This project was part of the City's yearly watermain rehabilitation program to address its aging and failing watermains. This contract included both cast iron and ductile watermains including a portion that contained insitu-lined cement mortar that required removal. The City added multiple sites to the project at the end of 2019 which were to be completed in 2020.

OVERVIEW

This project contained three separate sites across the City of Toronto. Included within this was a residential and commercial stretch of Pape Avenue, a dense residential pocket of Westmoreland Avenue and Shanley Street as well as a short residential section of Bell haven Road.

The Pape site was situated on an arterial roadway which required a complex Traffic Protection Plan and limited the available working hours. This project buttoned up next to an open-cut watermain replacement project that had begun before the CIPP project. As a two-block section of separation was required, FER-PAL completed the majority of their work within three months yet had to wait until the open-cut portion was completed before they could wrap things up fully. The two-block portion was completed the following year after the open-cut replacement project was completed.

The Westmoreland and Bellhaven sites were located within dense residential areas of the City which required a high level of coordination to determine which services were substandard and which ones required internal reinstatement. One of the largest challenges on this contract was the removal of existing cement mortar lining that no longer was required within the host main. In total 890 m was removed before lining to ensure the watermain ID was restored to its original size.

In total, the contract included 200 substandard water service replacements. In addition to this FER-PAL successfully reinstated 308 services achieving a 96% successful reinstatement rate.